

PATENT COOPERATION TREATY

PCT

INTERNATIONAL-TYPE SEARCH REPORT

(PCT Article 15.5)

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2003 -06- 0 2

U-A PD

National application No. 0203226-6	Country or Office of filing SE	Applicant's or agent's file reference PU0284-SE
Filing date (<i>day/month/year</i>) 31 October 2002	(Earliest) Priority Date (<i>day/month/year</i>)	
Applicant AMERSHAM BIOSCIENCES AB		

Date of request for international-type search 31 October 2002	International-type search request No. SE 02/01004
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This international-type search report has been prepared by this International Searching Authority and is transmitted to the applicant.

This international-type search report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☒ Certain claims were found unsearchable (See Box I).
2. ☐ Unity of invention is lacking (See Box II).
3. ☐ The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international-type search was carried out on the basis of the sequence listing
 - ☐ filed with the international application.
 - ☐ furnished by the applicant separately from the international application,
 - ☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
 - ☐ transcribed by this Authority.

INTERNATIONAL-TYPE SEARCH REPORT

Search request No.

ITS/SE02/01004

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international-type search report has not been established in respect of certain claims for the following reasons:

1. ☐ Claims No.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims No.: **1-19 (partially)**
because they relate to parts of the national application that do not comply with the prescribed requirements to such an extent that no meaningful international-type search can be carried out, specifically:
see next sheet

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international-type search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international-type search report covers only those claims for which fees were paid, specifically claims No.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international-type search report is restricted to the invention first mentioned in the claims, it is covered by claims No.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

Claims 1-6 relate to a compound containing a binding pocket. The compound is not considered to be sufficiently defined. It is even uncertain whether the binding pocket is sufficiently defined by the structure coordinates in order to be reproducibly generated.

Present claims 1-8 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.

Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts related to a compound consisting of the IgG kappa constant region (either the light chain alone or in combination with the heavy chain).

Claims 9-19 relate to methods and uses of the compound or binding pocket. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is not considered to be sufficient. Since no ligands identified by the methods have been named it is not considered that the description is sufficiently clear and complete for the invention to be carried out by a person skilled in the art.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C07K 16/18, G06T 17/00, G01N 33/563
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C07K, G06T, G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	The Journal of Biological Chemistry, Vol. 271, No. 21, 24 May 1996, Susan Chacko et al: "Structural Studies of Human Autoantibodies", page 12191 - page 12198, abstract	1-8,20-22
Y	--	9-19
Y	Pathology Inaternational, Vol. 51, Issue 4, April 2001, Yoshinobu Hoshii et al: "Useful polyclonal antibodies against synthetic peptides corresponding to immunoglobulin light chain constant region for immunohistochemical detection of immunoglobulin light chain amyloidosis", page 264 - page 270	9-19
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☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international-type search

21 May 2003

Date of mailing of the international-type search report

2003-05-29

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INTERNATIONAL-TYPE SEARCH REPORT

Search request No.

SE 02/01004

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>Journal of Immunological Methods, Vol. 71, 1984, Hervé Bazin et al: "Rat Monoclonal Antibodies. II. A Rapid and Efficient Method of Purification from Ascitic Fluid or Serum", page 9 - page 16</p> <p>-- -----</p>	9-19